



COC# 147

11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776  
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132  
20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

(425) 420-9200 FAX 420-9210  
(509) 924-9200 924-9290  
(503) 906-9200 FAX 906-9210  
(541) 383-9310 FAX 382-7588

# CHAIN OF CUSTODY REPORT

Work Order #: M107007

CLIENT: BRISTOL		INVOICE TO: BRISTOL												<b>TURNAROUND REQUEST in Business Days*</b> Organic & Inorganic Analyses 10 7 5 4 3 2 1 <1 STD. Petroleum Hydrocarbon Analyses 5 4 3 2 1 <1 STD. <b>OTHER</b> Please Specify <small>*Turnaround Requests less than standard may incur Rush Charges.</small>							
REPORT TO: ANNE KRANAWETTER		P.O. NUMBER: 21090																			
ADDRESS: AMCHITKA ISLAND, AK		REQUESTED ANALYSES																			
PHONE: 907-770-0974 FAX: 770-0975		PROJECT NAME: AMCHITKA												MATRIX (W, S, O)				# OF CONT.	COMMENTS	NCA WO ID	
PROJECT NUMBER: 21090		PROJECT NUMBER: 21090																			
SAMPLED BY: Charlie		SAMPLED BY: Charlie																			
CLIENT SAMPLE IDENTIFICATION		SAMPLING DATE/TIME		PEB	BOD	TSS	Phos	Fecal	DO/RH	Nutrients											
1. 01AM TE06 SW		7/3/01 1415		✓	✓	✓	✓	✓	✓	✓							W	10	pH 7.0 DO 7.0		
2.																			Turbidity 0.0		
3.																			Totalizer		
4.																			992,569		
5.																					
6.																					
7.																					
8.																					
9.																					
10.																					
11.																					
12.																					
13.																					
14.																					
15.																					
RELINQUISHED BY: [Signature]		DATE: 7/3/01		RECEIVED BY: [Signature]								DATE: 7/10/01									
PRINT NAME: Charlie Michel		TIME: 1423		PRINT NAME: Stephen Wilb								TIME: 1928									
FIRM: BRISTOL				FIRM: NCA																	
RELINQUISHED BY:		DATE:		RECEIVED BY:								DATE:									
PRINT NAME:		TIME:		PRINT NAME:								TIME:									
FIRM:				FIRM:																	
ADDITIONAL REMARKS: Totalizer is still uncorrected. Lagoon Treated water																		TEMP:		PAGE OF	



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-9223  
425.420.9200 fax 425.420.9210  
**Spokane** East 11115 Montgomery, Suite B, Spokane, WA 99206-4776  
509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
541.383.9310 fax 541.382.7588

7 December, 2001

Anne Kranawetter  
Bristol Environmental & Engineering  
2000 W International Airport C#1  
Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are the results of analyses for samples received by the laboratory on 07/03/01 14:28. If you have any questions concerning this report, please feel free to contact me.

This report was recreated from a previously issued final report in order to provide an electronic copy. The final report used for these electronic copies may have been previously issued as an amended report due to client requested changes to sample names, etc. No data has changed since submission of the previously issued final, or amended, report.

Sincerely,

Stephen Wilson  
Environmental Group Leader

Work Orders included in this report:

**M107007**



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-9223  
425.420.9200 fax 425.420.9210  
**Spokane** East 11115 Montgomery, Suite B, Spokane, WA 99206-4776  
509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering  
2000 W International Airport C#1  
Anchorage, AK 99502-1116

Project: Amchitka  
Project Number: 21090  
Project Manager: Anne Kranawetter

**Reported:**  
07/10/01 16:25

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01AMTE06SW	M107007-01	Water	07/03/01 14:15	07/03/01 14:28

COC #147

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

**North Creek Analytical, Inc.**  
**Environmental Laboratory Network**

1 of 11



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-9223  
425.420.9200 fax 425.420.9210  
**Spokane** East 11115 Montgomery, Suite B, Spokane, WA 99206-4776  
509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering  
2000 W International Airport C#1  
Anchorage, AK 99502-1116

Project: Amchitka  
Project Number: 21090  
Project Manager: Anne Kranawetter

**Reported:**  
07/10/01 16:25

## Polychlorinated Biphenyls per EPA Method 8082

### North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMTE06SW (M107007-01) Water</b>						Sampled: 07/03/01 Received: 07/03/01			
Aroclor 1016	ND	0.200	ug/l	1	EPA 8082	07/05/01	07/05/01	0107022	
Aroclor 1221	ND	0.400	"	"	"	"	"	"	
Aroclor 1232	ND	0.200	"	"	"	"	"	"	
Aroclor 1242	ND	0.200	"	"	"	"	"	"	
Aroclor 1248	ND	0.200	"	"	"	"	"	"	
<b>Aroclor 1254</b>	<b>0.426</b>	0.200	"	"	"	"	"	"	
Aroclor 1260	ND	0.200	"	"	"	"	"	"	
<i>Surr: 2,4,5,6-Tetrachloro-m-xylene</i>	<i>58.0 %</i>	<i>44-119</i>							
<i>Surr: Decachlorobiphenyl</i>	<i>59.5 %</i>	<i>54-128</i>							

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

**North Creek Analytical, Inc.**  
**Environmental Laboratory Network**

2 of 11



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-9223  
425.420.9200 fax 425.420.9210  
**Spokane** East 11115 Montgomery, Suite B, Spokane, WA 99206-4776  
509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering  
2000 W International Airport C#1  
Anchorage, AK 99502-1116

Project: Amchitka  
Project Number: 21090  
Project Manager: Anne Kranawetter

**Reported:**  
07/10/01 16:25

**Total Metals per EPA 6000/7000 Series Methods**  
**North Creek Analytical - Mobile Lab**

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
---------	--------	--------------------	-------	----------	--------	----------	----------	-------	-------

**01AMTE06SW (M107007-01) Water**

Sampled: 07/03/01 Received: 07/03/01

Arsenic	ND	0.00500	mg/l	1	EPA 6020	07/08/01	07/09/01	0107034	
Cadmium	ND	0.00200	"	"	"	"	"	"	
Chromium	ND	0.00500	"	"	"	"	"	"	
<b>Lead</b>	<b>0.0375</b>	0.00500	"	"	"	"	"	"	
Selenium	ND	0.00500	"	"	"	"	"	"	
Silver	ND	0.00200	"	"	"	"	"	"	
Mercury	ND	0.0000100	"	"	EPA 1631	07/09/01	07/10/01	0107036	

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

**North Creek Analytical, Inc.**  
**Environmental Laboratory Network**



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-9223  
425.420.9200 fax 425.420.9210  
**Spokane** East 11115 Montgomery, Suite B, Spokane, WA 99206-4776  
509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering  
2000 W International Airport C#1  
Anchorage, AK 99502-1116

Project: Amchitka  
Project Number: 21090  
Project Manager: Anne Kranawetter

**Reported:**  
07/10/01 16:25

**Conventional Chemistry Parameters per APHA/EPA Methods**  
**North Creek Analytical - Mobile Lab**

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMTE06SW (M107007-01) Water</b>					Sampled: 07/03/01 Received: 07/03/01				
Biochemical Oxygen Demand	ND	4.00	mg/l	1	EPA 405.1	07/04/01	07/10/01	0107026	Q-12
<b>Dissolved Oxygen</b>	<b>7.30</b>	1.00	"	"	EPA 360.1	07/03/01	07/03/01	0107017	
<b>pH</b>	<b>6.90</b>	0.100	pH Units	"	EPA 150.1	"	07/05/01	"	
Total Suspended Solids	ND	10.0	mg/l	"	EPA 160.2	07/03/01	07/04/01	0107018	

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

**North Creek Analytical, Inc.**  
**Environmental Laboratory Network**

4 of 11



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-9223  
425.420.9200 fax 425.420.9210  
**Spokane** East 11115 Montgomery, Suite B, Spokane, WA 99206-4776  
509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering  
2000 W International Airport C#1  
Anchorage, AK 99502-1116

Project: Amchitka  
Project Number: 21090  
Project Manager: Anne Kranawetter

**Reported:**  
07/10/01 16:25

**Microbiological Parameters per APHA Standard Methods**  
**North Creek Analytical - Mobile Lab**

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
---------	--------	--------------------	-------	----------	--------	----------	----------	-------	-------

**01AMTE06SW (M107007-01) Water**

Sampled: 07/03/01 Received: 07/03/01

<b>E. Coli</b>	<b>4.10</b>	2.00MPN/100 ml	1		SM 9221	07/03/01	07/04/01	0107016	
<b>Total Coliforms</b>	<b>261</b>	2.00	"	"	"	"	"	"	

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

**North Creek Analytical, Inc.**  
**Environmental Laboratory Network**



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-9223  
425.420.9200 fax 425.420.9210  
**Spokane** East 11115 Montgomery, Suite B, Spokane, WA 99206-4776  
509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering  
2000 W International Airport C#1  
Anchorage, AK 99502-1116

Project: Amchitka  
Project Number: 21090  
Project Manager: Anne Kranawetter

**Reported:**  
07/10/01 16:25

### Polychlorinated Biphenyls per EPA Method 8082 - Quality Control

#### North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	--------------	----------------	-----	--------------	-------

#### Batch 0107022 - 3520B Liq-Liq

##### Blank (0107022-BLK1)

Prepared & Analyzed: 07/05/01

Aroclor 1016	ND	0.200	ug/l							
Aroclor 1221	ND	0.400	"							
Aroclor 1232	ND	0.200	"							
Aroclor 1242	ND	0.200	"							
Aroclor 1248	ND	0.200	"							
Aroclor 1254	ND	0.200	"							
Aroclor 1260	ND	0.200	"							

Surr: 2,4,5,6-Tetrachloro-m-xylene

0.146

"

0.200

73.0

44-119

Surr: Decachlorobiphenyl

0.178

"

0.200

89.0

54-128

##### LCS (0107022-BS1)

Prepared & Analyzed: 07/05/01

Aroclor 1254	0.736	0.200	ug/l	1.00		73.6	47-155			
Surr: 2,4,5,6-Tetrachloro-m-xylene	0.125		"	0.200		62.5	44-119			
Surr: Decachlorobiphenyl	0.156		"	0.200		78.0	54-128			

##### LCS Dup (0107022-BSD1)

Prepared & Analyzed: 07/05/01

Aroclor 1254	0.630	0.200	ug/l	1.00		63.0	47-155	15.5	50	
Surr: 2,4,5,6-Tetrachloro-m-xylene	0.114		"	0.200		57.0	44-119			
Surr: Decachlorobiphenyl	0.142		"	0.200		71.0	54-128			

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

North Creek Analytical, Inc.  
Environmental Laboratory Network





**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-9223  
425.420.9200 fax 425.420.9210  
**Spokane** East 11115 Montgomery, Suite B, Spokane, WA 99206-4776  
509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering  
2000 W International Airport C#1  
Anchorage, AK 99502-1116

Project: Amchitka  
Project Number: 21090  
Project Manager: Anne Kranawetter

**Reported:**  
07/10/01 16:25

### Total Metals per EPA 6000/7000 Series Methods - Quality Control

#### North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	----------------	-----	--------------	-------

#### Batch 0107034 - EPA 200/3005

##### Blank (0107034-BLK1)

Prepared: 07/07/01 Analyzed: 07/09/01

Arsenic	ND	0.00500	mg/l
Cadmium	ND	0.00200	"
Chromium	ND	0.00500	"
Lead	ND	0.00500	"
Selenium	ND	0.00500	"
Silver	ND	0.00200	"

##### LCS (0107034-BS1)

Prepared: 07/07/01 Analyzed: 07/09/01

Arsenic	0.0959	0.00500	mg/l	0.100	95.9	80-120
Cadmium	0.0976	0.00200	"	0.100	97.6	80-120
Chromium	0.0956	0.00500	"	0.100	95.6	80-120
Lead	0.0950	0.00500	"	0.100	95.0	80-120
Selenium	0.100	0.00500	"	0.100	100	75-115
Silver	0.101	0.00200	"	0.100	101	80-120

##### Duplicate (0107034-DUP1)

Source: M107018-01

Prepared: 07/07/01 Analyzed: 07/09/01

Arsenic	ND	0.00500	mg/l	ND	9.48	20	
Cadmium	ND	0.00200	"	ND	58.1	20	Q-06
Chromium	ND	0.00500	"	ND	7.06	20	
Lead	0.0442	0.00500	"	0.0450	1.79	20	
Selenium	ND	0.00500	"	ND	68.3	20	Q-06
Silver	ND	0.00200	"	ND	21.1	20	Q-06

##### Matrix Spike (0107034-MS1)

Source: M107018-01

Prepared: 07/07/01 Analyzed: 07/09/01

Arsenic	0.113	0.00500	mg/l	0.100	ND	108	75-125
Cadmium	0.105	0.00200	"	0.100	ND	105	75-125
Chromium	0.104	0.00500	"	0.100	ND	102	75-125
Lead	0.140	0.00500	"	0.100	0.0450	95.0	75-125
Selenium	0.108	0.00500	"	0.100	ND	105	75-125
Silver	0.103	0.00200	"	0.100	ND	103	75-125

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

North Creek Analytical, Inc.  
Environmental Laboratory Network



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-9223  
425.420.9200 fax 425.420.9210  
**Spokane** East 11115 Montgomery, Suite B, Spokane, WA 99206-4776  
509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering  
2000 W International Airport C#1  
Anchorage, AK 99502-1116

Project: Amchitka  
Project Number: 21090  
Project Manager: Anne Kranawetter

**Reported:**  
07/10/01 16:25

### Total Metals per EPA 6000/7000 Series Methods - Quality Control

#### North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	----------------	-----	--------------	-------

#### Batch 0107036 - EPA 1631

##### Blank (0107036-BLK1)

Prepared: 07/09/01 Analyzed: 07/10/01

Mercury ND 0.0000100 mg/l

##### LCS (0107036-BS1)

Prepared: 07/09/01 Analyzed: 07/10/01

Mercury 0.000127 0.0000100 mg/l 0.000125 102 85-115

##### Duplicate (0107036-DUP1)

Source: M107018-01

Prepared: 07/09/01 Analyzed: 07/10/01

Mercury ND 0.0000100 mg/l 0.0000150 52.6 20 Q-06

##### Matrix Spike (0107036-MS1)

Source: M107018-01

Prepared: 07/09/01 Analyzed: 07/10/01

Mercury 0.000159 0.0000100 mg/l 0.000125 0.0000150 115 75-125

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

North Creek Analytical, Inc.  
Environmental Laboratory Network



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-9223  
425.420.9200 fax 425.420.9210  
**Spokane** East 11115 Montgomery, Suite B, Spokane, WA 99206-4776  
509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering  
2000 W International Airport C#1  
Anchorage, AK 99502-1116

Project: Amchitka  
Project Number: 21090  
Project Manager: Anne Kranawetter

**Reported:**  
07/10/01 16:25

### Conventional Chemistry Parameters per APHA/EPA Methods - Quality Control

#### North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	----------------	-----	--------------	-------

#### Batch 0107017 - Wet Chem

**Duplicate (0107017-DUP1)** Source: M107007-01 Prepared: 07/03/01 Analyzed: 07/05/01

pH	6.90	0.100	pH Units	6.90	0	200
----	------	-------	----------	------	---	-----

#### Batch 0107018 - Wet Chem

**Blank (0107018-BLK1)** Prepared: 07/03/01 Analyzed: 07/04/01

Total Suspended Solids	ND	10.0	mg/l
------------------------	----	------	------

**LCS (0107018-BS1)** Prepared: 07/03/01 Analyzed: 07/04/01

Total Suspended Solids	123	10.0	mg/l	121	102	80-120
------------------------	-----	------	------	-----	-----	--------

**Duplicate (0107018-DUP1)** Source: M107007-01 Prepared: 07/03/01 Analyzed: 07/04/01

Total Suspended Solids	ND	10.0	mg/l	ND	0	20
------------------------	----	------	------	----	---	----

#### Batch 0107026 - Wet Chem

**Blank (0107026-BLK1)** Prepared: 07/04/01 Analyzed: 07/10/01

Biochemical Oxygen Demand	ND	4.00	mg/l
---------------------------	----	------	------

**LCS (0107026-BS1)** Prepared: 07/04/01 Analyzed: 07/10/01

Biochemical Oxygen Demand	178	4.00	mg/l	198	89.9	75-125
---------------------------	-----	------	------	-----	------	--------

**Duplicate (0107026-DUP1)** Source: M107007-01 Prepared: 07/04/01 Analyzed: 07/10/01

Biochemical Oxygen Demand	ND	4.00	mg/l	ND	40	Q-12
---------------------------	----	------	------	----	----	------

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

North Creek Analytical, Inc.  
Environmental Laboratory Network

9 of 11



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-9223  
425.420.9200 fax 425.420.9210  
**Spokane** East 11115 Montgomery, Suite B, Spokane, WA 99206-4776  
509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering  
2000 W International Airport C#1  
Anchorage, AK 99502-1116

Project: Amchitka  
Project Number: 21090  
Project Manager: Anne Kranawetter

**Reported:**  
07/10/01 16:25

### Microbiological Parameters per APHA Standard Methods - Quality Control

#### North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	----------------	-----	--------------	-------

#### Batch 0107016 - Micro Extractions

##### Blank (0107016-BLK1)

Prepared: 07/03/01 Analyzed: 07/04/01

E. Coli	ND	2.00	MPN/100 ml
Total Coliforms	ND	2.00	"

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

**North Creek Analytical, Inc.**  
**Environmental Laboratory Network**



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-9223  
425.420.9200 fax 425.420.9210  
**Spokane** East 11115 Montgomery, Suite B, Spokane, WA 99206-4776  
509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering  
2000 W International Airport C#1  
Anchorage, AK 99502-1116

Project: Amchitka  
Project Number: 21090  
Project Manager: Anne Kranawetter

**Reported:**  
07/10/01 16:25

### Notes and Definitions

Q-06 Analyses are not controlled on RPD values from sample concentrations less than 5 times the reporting limit.

Q-12 None of the sample dilutions selected met the criteria of at least 2 mg/l dissolved oxygen depletion.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.

wet Sample results reported on a wet weight basis (as received)

RPD Relative Percent Difference

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

**North Creek Analytical, Inc.**  
**Environmental Laboratory Network**

11 of 11

### Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Report recreated from: \\sisters\elmnt\Report\M107007 FINAL 07 10 01 1625.mdb Default Report (not modified)
0107026-DUP1	BOD-405.1	Biochemical Oxygen Demand	Q-12
0107034-DUP1	Ag Total ICPMS 6020	Silver	Q-06
0107034-DUP1	Ag Total ICPMS 6020	Silver	Exceeds RPD limit
0107034-DUP1	Cd Total ICPMS 6020	Cadmium	Q-06
0107034-DUP1	Cd Total ICPMS 6020	Cadmium	Exceeds RPD limit
0107034-DUP1	Se Total ICPMS 6020	Selenium	Q-06
0107034-DUP1	Se Total ICPMS 6020	Selenium	Exceeds RPD limit
0107036-DUP1	Hg Total CVAF 1631	Mercury	Q-06
0107036-DUP1	Hg Total CVAF 1631	Mercury	Exceeds RPD limit
M107007-01	BOD-405.1	Biochemical Oxygen Demand	Q-12